

AMENDMENTS TO THE CLAIMS

By this paper, claims 1, 5, 66, 79 and 84 are being amended, claims 7 and 81-83 are being cancelled, and claim 85 is added, as reflected below.

1. (Currently Amended) A security article comprising:

D1 a light transmissive substrate having a first surface and an opposing second surface, the first surface having an optical structure thereon;

a color shifting optical coating on the second surface of the substrate, said optical coating including an absorber layer on the substrate, a dielectric layer on the absorber layer, and a reflector layer on the dielectric layer, the optical coating providing an observable color shift as the angle of incident light or viewing angle changes; and

an adhesive layer on the optical coating.

- D2 2. (Original) The security article of claim 1, wherein the substrate comprises a plastic material.

D3 3. (Previously Amended) The security article of claim 2, wherein the plastic material is selected from the group consisting of polyethylene terephthalate, polycarbonate, polyvinyl chloride, polyacrylates, polyacrylonitrile, polystyrene, polypropylene, cellulose diacetate, cellulose triacetate, polydicyclopentadiene, and mixtures or copolymers thereof.

D4 4. (Previously Amended) The security article of claim 1, wherein the optical structure is selected from the group consisting of a diffraction grating pattern, holographic image pattern, zero order diffraction pattern, and combinations thereof.

5. (Currently Amended) The security article of claim 1, wherein the optical structure is ~~selected from the group consisting of holograms with changing imagery as the angle of view is changed, and~~ a hologram with multiple holographic pixels arranged in a spatial orientation that generates one holographic image.

6. (Cancelled).

7. (Cancelled).

8. (Cancelled).

9 - 13 (Withdrawn).

DS 14. (Previously Amended) The security article of claim 1, wherein the combination of the optical structure and the color shifting optical coating produce unique colors with viewing angles changes not achievable with either the optical structure or the color shifting optical coating alone.

15 - 65 (Withdrawn)

De 66. (Currently Amended) A hot stamp structure for use in attaching a security article to an object, comprising:

a carrier sheet;

a release layer on the carrier sheet;

a light transmissive substrate on the release layer, said substrate having a first side adjacent the release layer and a second side ~~the substrate~~ having an optical interference pattern thereon;

a color shifting optical coating on the substrate, said optical coating including an absorber layer on the substrate, a dielectric layer on the absorber layer, and a reflector layer on the dielectric layer, the optical coating providing an observable color shift as the angle of incident light or viewing angle changes; and

an adhesive layer on the optical coating.

DS 67. (Original) The hot stamp structure of claim 66, wherein the carrier sheet comprises a plastic material.

68. (Original) The hot stamp structure of claim 66, wherein the release layer comprises a material selected from the group consisting of polyvinyl chloride, polystyrene, chlorinated rubber, acrylonitrile-butadiene-styrene copolymer, nitrocellulose, methyl methacrylate, acrylic copolymers, fatty acids, waxes, gums, gels, and mixtures thereof.

69. (Withdrawn).

70. (Cancelled).

71 - 75. (Withdrawn).

DS 76. (Original) The hot stamp structure of claim 66, wherein the adhesive layer is a thermally activated adhesive comprising a material selected from the group consisting of acrylic-based polymers, ethylene vinyl acetate, polyamides, and combinations thereof.

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77. (Original) The hot stamp structure of claim 66, wherein the adhesive layer comprises a UV activated adhesive.

78. (Withdrawn).

79. (Currently Amended) A security article comprising:

a light transmissive substrate having a first surface and an opposing second surface, the first surface having an optical interference pattern, wherein the optical interference pattern is a light interference pattern based on microstructures having dimensions of from about 0.1 μm to about 10 μm ;

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a color shifting optical coating on the second surface of the substrate, the optical coating providing an observable color shift as the angle of incident light or viewing angle changes, wherein the optical coating is a multilayer optical interference film including an absorber layer on the second surface of the substrate, a dielectric layer on the absorber layer, and a reflector layer on the dielectric layer; and

an adhesive layer on the optical coating.

80. (Previously re-presented – formerly dependent claim 8) A security article comprising:

a light transmissive substrate having a first surface and an opposing second surface, the first surface having an optical interference pattern;

a color shifting optical coating on the second surface of the substrate, the optical coating providing an observable color shift as the angle of incident light or viewing angle changes, wherein the optical coating is a multilayer optical interference film including an absorber layer on the second surface of the substrate, a dielectric layer on the absorber layer, and a reflector layer on the dielectric layer; and

an adhesive layer on the optical coating.

81. (Cancelled)

82. (Cancelled)

83. (Cancelled)

D10 84. (Currently Amended) The security article of claim 1, wherein the optical structure produces ~~compr~~ises a moiré pattern.

D11 85. (New) The security article of claim 1, wherein the optical structure is a two-dimensional computer-generated image in which the individual picture elements are filled with light-diffracting microstructures.
